IN THE CLAIMS:

Please write the claims to read as follows:

Please cancel claims 2 and 15 without prejudice.

- 1 (Currently Amended) A method comprising:
- performing a cyclic redundancy check (CRC) on each of a plurality of code
 blocks of a turbo product code (TPC) code word; and
 - assigning an artificially high probability confidence measure to bits of any of the plurality of code blocks which pass the CRC; and
- iteratively decoding the TPC code word between a soft decision algorithm of a

 sequence detector and a TPC decoder using the artificially high probability confidence

 measure assigned to bits of code blocks which pass the CRC.
 - 2. (Cancelled)

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- 3. (Currently Amended) The method of claim 21, wherein performing the CRC on each
- of the plurality of code blocks further comprises performing the CRC on each of the
- plurality of code blocks during a first iteration between the soft decision algorithm and
- 4 the TPC decoder.
- 4. (Original) The method of claim 3, wherein performing the CRC on each of the
- 2 plurality of code blocks during the first iteration between the soft decision algorithm and
- the TPC decoder further comprises performing the CRC on each of the code blocks after
- decoding using the TPC decoder and before the corresponding probability confidence

- 5 measures from the plurality of code blocks are sent back to the soft decision algorithm.
- 5. (Original) The method of claim 4, wherein performing the CRC on each of the
- 2 plurality of code blocks further comprises performing the CRC on each of the plurality of
- 3 code blocks during each of a plurality- of iterations between the soft decision algorithm
- and the TPC decoder, and wherein assigning the artificially high probability confidence
- 5 measure to bits of any of the plurality of code blocks which pass the CRC further
- 6 comprises assigning the artificially high probability confidence measure to bits of each
- 7 code block which passes the CRC during the iteration in which the code block passes the
- 8 CRC.
- 6. (Currently Amended) The method of claim 21, wherein the probability confidence
- measures are log-likelihood ratios, and wherein assigning the artificially high probability
- 3 confidence measure comprises assigning an artificially high log-likelihood ratio.
- 7. (Currently Amended) The method of claim 21, wherein the soft decision algorithm is a soft output viterbi algorithm (SOVA).
- 8. (Currently Amended) The method of claim 21, wherein the soft decision algorithm is a Bahl, Cocke, Jelinek, and Raviv (BCJR) algorithm.
- 9. (Currently Amended) The method of claim 21, wherein the TPC code word is a TPC code word with single parity check (TPC/SPC).
- 1 10-11. (Cancelled)

1	12. (Currently Amended) A communication system, comprising:
2	iterative decoder implementing circuitry configured to: implement the method of
3	claim 1
4	i) perform a cyclic redundancy check (CRC) on each of a plurality of code
5	blocks of a turbo product code (TPC) code word;
6	ii) assign an artificially high probability confidence measure to bits of any
7	of the plurality of code blocks which pass the CRC; and
8	iii) iteratively decode the TPC code word between a soft decision
9	algorithm of a sequence detector and a TPC decoder using the artificially high
10	probability confidence measure assigned to bits of code blocks which pass the
11	CRC.
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1	13. (Currently Amended) An apparatus comprising:
2	an iterative decoder having a TPC decoder and a sequence detector implementing
3	a soft decision algorithm, the iterative decoder configured to iteratively decode a turbo
4	product code (TPC) code word between the sequence detector and TPC decoder;
5	cyclic redundancy check (CRC) implementing circuitry configured to perform a
6	CRC on each of a plurality of code blocks of the TPC code word; and
7	pre-determined extrinsic information generating circuitry configured to assign
8.	extrinsic information representing an artificially high probability confidence measure to
9	bits of any of the plurality of code blocks which pass the CRC, the artificially high
10	probability confidence measure used by the iterative decoder.
1	14. (Original) The apparatus of claim 13, wherein the cyclic redundancy check
2	implementing circuitry forms part of the iterative decoder

- 1 15. (Cancelled)
- 1 16. (Currently Amended) The apparatus of claim 1513, wherein the soft decision
- algorithm is a soft output viterbi algorithm (SOVA).
- 1 17. (Currently Amended) The apparatus of claim 1513, wherein the soft decision
- algorithm is a Bahl, Cocke, Jelinek, and Raviv (BCJR) algorithm.
- 1 18. (Currently Amended) The apparatus of claim 1513, wherein the TPC decoder is
- configured to decode a TPC code word with single parity check (TPC/SPC).
- 1 | 19. (Currently Amended) The apparatus of claim 1513, wherein the iterative decoder
- and the CRC implementing circuitry are configured to perform the CRC on each of the
- 3 code blocks after decoding using the TPC decoder and before the corresponding extrinsic
- 4 information from the plurality of code blocks are sent back to the soft decision algorithm.
- 20. (Original) The apparatus of claim 19, wherein the iterative decoder and the CRC
- 2 implementing circuitry are configured to perform the CRC on each of the plurality of
- code blocks during each of a plurality of iterations between the soft decision algorithm
- and the TPC decoder, and wherein the predetermined extrinsic information generating
- 5 circuitry is configured to assign the extrinsic information representing the artificially high
- 6 probability confidence measure to bits of any of the plurality of code blocks which pass
- the CRC during the iteration in which the code block passes the CRC.